



Product Evaluation

DR876 | 0218

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: DR-876

Effective Date: February 1, 2018

Re-evaluation Date: February 2022

Product Name: 6'-8" and 8'-0" HPC Fiberglass Glazed Inswing and Outswing Side Hinged Doors, with and without Sidelites, Frame Installation, Non-Impact Resistant

Manufacturer: Masonite Exterior Door Products
201 N. Franklin Street
Suite 300
Tampa, Florida 33602
(800) 663-3667

General Description:

System	Description	Design Pressure Rating
1	8'-0" HPC Fiberglass Glazed Inswing Doors with or without Sidelites; Configurations: X, XX, XO, OX, OXO, OXXO	+47 / -47 psf
2	8'-0" HPC Fiberglass Glazed Outswing Doors with or without Sidelites; Configurations: X, XX, XO, OX, OXO, OXXO	+47 / -47 psf
3	6'-8" HPC Fiberglass Glazed Inswing Doors with or without Sidelites; Configurations: X, XX, XO, OX, OXO, OXXO	+50 / -50 psf
4	6'-8" HPC Fiberglass Glazed Outswing Doors with or without Sidelites; Configurations: X, XX, XO, OX, OXO, OXXO	+50 / -50 psf

Product Dimensions:

System	Overall Size
1	148-7/8" x 97-7/8"
2	148-7/8" x 96-5/8"
3	148-7/8" x 81-3/4"
4	148-7/8" x 80-5/8"

Product Dimensions – Doors:

System	Active Panel Size	Passive Panel Size	Glass Daylight Opening Size
1	35-3/4" x 95-1/4"	36-3/8" x 95-1/4"	21" x 79"
2	35-3/4" x 95-1/4"	36-3/8" x 95-1/4"	21" x 79"
3	35-3/4" x 79-1/4"	36-3/8" x 79-1/4"	21" x 63"
4	35-3/4" x 79-1/4"	36-3/8" x 79-1/4"	21" x 63"

Product Dimensions - Sidelites:

System	Sidelite Panel Size	Glass Daylight Opening Size
1	35-3/4" x 95-1/4"	21" x 79"
2	35-3/4" x 95-1/4"	21" x 79"
3	35-3/4" x 79-1/4"	21" x 63"
4	35-3/4" x 79-1/4"	21" x 63"

Hardware (Systems 1, 2):

- **Hinges:** four required; secured to the door panel with four No. 10 x 1" PFH screws; secured to the door jamb with two No. 10 x 5/8" PFH screws and two No. 10 x 2-1/2" PFH screws.
- **Kwikset Series 400 Lockset:** locate on the active door panel.
- **Kwikset Series 980 deadbolt:** locate on the active door panel.
- **Strike plate – Lockset:** one required; locate on the door jamb; secured with two No. 8 x 2" PFH screws.
- **Strike plate – Deadbolt:** one required; locate on the door jamb; secured with two No. 8 x 2" PFH screws.
- **Astragal strike – strike plate at head:** Secure with two No. 8 x 2" PFH screws
- **Astragal strike – sill retainer hole:** drill hole through sill deep enough for a 1-3/8" extension bolt throw.

Hardware (Systems 3, 4):

- **Hinges:** three required; secured to the door panel with four No. 10 x 1" PFH screws; secured to the door jamb with two No. 10 x 5/8" PFH screws and two No. 10 x 2-1/2" PFH screws.
- **Kwikset Series 400 Lockset:** locate on the active door panel.
- **Kwikset Series 980 deadbolt:** locate on the active door panel.
- **Strike plate – Lockset:** one required; locate on the door jamb; secured with two No. 8 x 2" PFH screws.
- **Strike plate – Deadbolt:** one required; locate on the door jamb; secured with two No. 8 x 2" PFH screws.
- **Astragal strike – strike plate at head:** Secure with two No. 8 x 2" PFH screws
- **Astragal strike – sill retainer hole:** drill hole through sill deep enough for a 1-3/8" screws extension bolt throw.

Thresholds:

- Outswing: 0.962" high aluminum adjustable threshold (System 2)
- Outswing: 1.482" high Endura Z Series High Dam aluminum threshold (System 2, 4)
- Outswing: 1.730" high DLP High Dam aluminum bumper threshold (System 2, 4)
- Inswing: 1.375" high aluminum adjustable threshold (System 1, 3)

Product Identification (Manufacturer Produced Label on Door):

NOTE: Each door is stamped "HPC" from the product manufacturer. The stamp is located on the top rail.

System		
1, 2	Manufacturer	Masonite
	Product Name	HPC Fiberglass Glazed Door Unit with or Without Sidelites Inswing or Outswing Config: X, XX, OX, XO, OXO, OXXO Max Nominal Size: 12'0" x 8'0"
	Test Standards	ASTM E 330-02
3, 4	Manufacturer	Masonite
	Product Name	HPC Fiberglass Glazed Door Unit with or Without Sidelites Inswing or Outswing Config: X, XX, OX, XO, OXO, OXXO Max Nominal Size: 12'0" x 6'8"
	Test Standards	ASTM E 330-02

Impact Resistance:

System	Impact Resistant	Requirement
1, 2, 3, 4	No	Provide impact protective system when product installing in areas that require windborne debris protection.

Acceptance of Smaller Assemblies: Door assemblies with dimensions equal to or smaller than those specified are acceptable within the limitations specified in this report.

Allowable Configurations: X, XX, XO, OX, OXO, OXXO

Sidelites: Only use sidelites with doors. Do not install sidelites individually.

Installation:

Systems 1, 2, 3, 4: The wood wall framing members must be minimum Spruce-Pine-Fir dimension lumber. The frame must be secured to the wall framing using minimum No. 10 x 2-1/2" PFH screws. Along the head and the sill, the fasteners must be located approximately 6" from each outside corner, one at 3" and 6" on each side of the mullion, one at 3" and 6" on each side of the astragal, and one at the centerline of each door panel. Along the side jambs, locate the fasteners approximately 6" from each corner and space evenly thereafter for six screws along each side jamb. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wall framing.

Concrete framing: If the frame is attached to concrete, substitute, minimum 3/16" diameter flat head concrete anchors. Embed the anchor a minimum of 1-1/4" into the concrete.

NOTE: An illustration of anchor location along the perimeter of the assembly is provided in drawing "Structural Performance Anchor Detail." Rev. 050217. An illustration of anchor placement on the frame and sill members is provided in Drawing "Anchor Placement Detail."

Note: Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.